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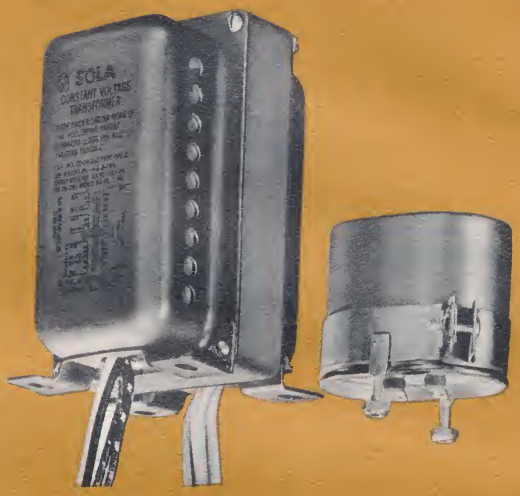
SOLA

A DIVISION OF
BASIC PRODUCTS CORPORATION

BPC

CV-150
DECEMBER 10, 1963
(Supersedes CV-100R
of April 30, 1963)

PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



constant-voltage SOLA transformers

...AUTOMATIC, INSTANTANEOUS VOLTAGE REGULATORS

Constant-voltage Sola transformers provide a stabilized output voltage even though the input voltage varies over a considerable range. Their applications are many and varied.

These range well beyond their basic use to supply a steady voltage necessary to the operation of much electrical and electronic equipment. Nearly as important is their ability to prolong the life of electronic components by eliminating injurious over- and under-voltages. The Sola transformer's current-limiting characteristic protects semiconductors and other components from excessive inrush and fault currents.

The Sola transformer is a static-magnetic voltage regulator, which offers distinct advantages over electronic-type regulators or those depending solely on core-saturation for regulating action:

1. Completely automatic and continuous regulation.
2. Regulation within ±1% for line variations up to ±15%.
3. Virtually instantaneous response time — 1.5 cycles or 25 milliseconds at 60 cycles.
4. No moving or renewable parts — no manual adjustment or maintenance.
5. Rugged — as resistant to mechanical shock as a conventional power transformer.
6. Self-protecting against short circuits on output circuit.
7. High degree of isolation, both physical and electrical between input and output circuits usually eliminates need for electrostatic shielding.

Sola static-magnetic transformers are supplied for a number of voltage-regulating requirements, serving a wide range of electrical and electronic devices. Sola transformers are provided in normal-harmonic versions as well as the standard sinusoidal type that supplies a sine-wave output even when the input wave-form is poor. Filament and plate-filament versions are also available.

This catalog lists the wide range of stock ratings and types available from Sola and our stocking distributors. Other ratings and special features are available on order in suitable manufacturing quantities.

Sola Sinusoidal Type (CVS) *LESS THAN 3% HARMONIC CONTENT*

Sola Sinusoidal transformers contain less than 3% total rms harmonic content in their output. They are thus particularly suitable for use with rectifiers or other equipment affected by harmonics in the supply voltage. Costing but little more than the normal-harmonic type, the CVS transformer is being more widely used in general applications where the effect of harmonics has yet to be determined.

The Sola sinusoidal transformer uses no filters, thus eliminating the need for extra capacitors and the possibility of noisy chokes. It is smaller and more rugged than transformers employing filters for wave-shape improvement.

Fifty-cycle versions of popular items are available from stock; special designs, in production quantities.

ELECTRICAL SPECIFICATIONS • 60 CYCLE SINGLE PHASE — **MECHANICAL SPECIFICATIONS**

Voltage Rating				Price Ind'l & Govt. Users	Nominal Dimensions		Approximate Shipping Weight Lbs.	* Structure Code
Regulated Output	Input Range	VA	Catalog Number		Outline	Mounting		
118	95-130	30	23-13-030(a)	$25.00	6 1/16 x 4 x 5 3/16	3 x 3 1/2	9	W
	190-260X 380-520	30	23-23-030(a)	27.00	6 1/16 x 4 x 5 3/16	3 x 3 1/2	9	W
	95-130	60	23-13-060(a)	30.00	6 13/16 x 4 x 5 3/16	3 x 3 1/2	10	W
	190-260X 380-520	60	23-23-060(a)	32.00	6 13/16 x 4 x 5 3/16	3 x 3 1/2	10	W
	95-130X 190-260	120	23-22-112(a)	38.00	8 x 4 x 5 3/16	3 x 3 1/2	14	W
	190-260X 380-520	120	23-23-112(a)	41.00	8 x 4 x 5 3/16	3 x 3 1/2	14	W
	95-130X 190-260	250	23-22-125(b)	52.00	9 5/8 x 5 3/8 x 7 7/16	4 1/8 x 4 3/4	28	W
	190-260X 380-520	250	23-23-125(b)	56.00	10 x 5 3/8 x 7 7/16	4 1/8 x 4 3/4	28	W
	95-130X 190-260	500	23-22-150(c)	81.00	12 7/16 x 9 x 6 7/16	5 5/8 x 8 1/8	47	W
118 x 236	190-260X 380-520	500	23-26-150(c)	86.00	12 7/16 x 9 x 6 7/16	5 5/8 x 8 1/8	47	W
	95-130X 175-235X 190-260	1000	23-25-210(c)	135.00	17 15/16 x 9 x 6 7/16	5 5/8 x 8 1/8	80	W
	190-260X 380-520	1000	23-26-210(c)	135.00	17 15/16 x 9 x 6 7/16	5 5/8 x 8 1/8	80	W
	95-130X 175-235X 190-260	2000	23-25-220	245.00	19 15/16 x 12 3/4 x 10 11/16	4 1/2 x 11 3/4	145	W
	190-260X 380-520	2000	23-26-220	245.00	19 15/16 x 12 3/4 x 10 11/16	4 1/2 x 11 3/4	145	W
	95-130X 175-235X 190-260	3000	23-25-230-3	330.00	21 7/8 x 12 3/4 x 10 11/16	6 7/16 x 11 3/4	192	W
	190-260X 380-520	3000	23-26-230	330.00	21 7/8 x 12 3/4 x 10 11/16	6 7/16 x 11 3/4	192	W
	95-130X 175-235X 190-260	5000	23-25-250	515.00	20 9/16 x 25 13/16 x 10 11/16	5 7/16 x 24 13/16	475	Y
	190-260X 380-520	5000	23-26-250	515.00	20 7/8 x 25 13/16 x 10 11/16	5 7/16 x 24 13/16	475	Y
	190-260X 380-520	7500	23-28-275	765.00	20 9/16 x 38 1/4 x 11 1/16	5 7/16 x 37 1/4	710	Z

An adjustable CVS, the ac Solavolt is available with output range from 0-130 v. 500 va. Write for Solavolt bulletin.

Normal Harmonic Type (CVN)

These Sola transformers provide the same ±1% regulation as the sinusoidal models above. Their output contains an average of 20% rms harmonic content. As with the CVS, they are simple, rugged, free of maintenance. They are reliable voltage-sources for electrical loads such as filaments, relays, solenoids, other transformers — in fact, all loads not affected by harmonics in the supply voltage.

Fifty-cycle versions of popular items are available from stock. Special designs adapted for component application are available in production quantities.

ELECTRICAL SPECIFICATIONS • 60 CYCLE SINGLE PHASE — **MECHANICAL SPECIFICATIONS**

Voltage Rating		Output Capacity in VA	Catalog Numbers	Approx. Net Price Each to Industrial, Commercial or Govt. Users	Nominal Dimensions (Inches)		Approx. Ship. Wt. in Lbs.	* Structure Code
Regulated Output	Input Range				Outline	Mounting		
118	95-130	15	20-10-015	$15.00	5 5/16 x 2 5/8 x 3 1/2	5 1/16 x 1 1/8	4	D
			20-11-015	20.00	5 1/4 x 3 1/2 x 2 1/4	3 x 1 1/2	4	S
			20-14-015	14.00	4 5/16 x 2 3/8 x 2 7/16	1 3/4 x 1 7/8	3	E
		30	20-14-030	16.00	4 5/16 x 2 3/8 x 3 5/16	1 7/8 x 2 5/8	5	E
			20-13-030(a)	20.00	6 x 4 x 5 3/16	3 x 3 1/2	7	W
		60	20-13-060(a)	25.00	6 13/16 x 4 x 5 3/16	3 x 3 1/2	10	W
			20-14-060	21.00	4 13/16 x 3 1/8 x 3 7/8	2 1/2 x 3 7/8	8	E
118	95-130	120	20-14-112	29.00	4 13/16 x 3 1/8 x 4 13/16	2 1/2 x 3 7/8	11	E
			20-13-112(a)	33.00	7 3/8 x 4 x 5 3/16	3 x 3 1/2	13	W
236	190-260	120	20-21-112(a)	33.00	7 3/8 x 4 x 5 3/16	3 x 3 1/2	13	W
118	95-130	150	20-13-115(b)	40.00	8 7/8 x 5 3/8 x 7 7/16	4 1/8 x 4 3/4	22	W
	190-260x 380-520	250	20-13-125(c)	49.00	11 1/8 x 6 15/16 x 6 7/16	4 5/8 x 6 1/8	25	W
			20-23-125(c)	49.00	11 1/8 x 6 15/16 x 6 7/16	4 5/8 x 6 1/8	25	W
	95-130	500	20-13-150(c)	77.00	12 5/16 x 6 15/16 x 6 7/16	4 5/8 x 6 1/8	36	W
	190-260x 380-520		20-23-150(c)	77.00				
236			20-24-150(c)	77.00	12 1/2 x 6 15/16 x 6 7/16			
118	95-130	1000	20-13-210	128.00	15 1/8 x 6 15/16 x 6 7/16	4 5/8 x 6 1/8	54	W
	190-260		20-20-210	128.00				
118x 236	95-130x 175-235x 190-260	2000	20-25-220	232.00	20 x 10 1/2 x 10 11/16	4 3/16 x 9 1/2	166	W
		3000	20-25-230	315.00	22 x 10 1/2 x 10 11/16	6 7/16 x 9 1/2	230	W
	190-260x 380-520	5000	20-27-250	490.00	21 x 14 1/2 x 14 3/8	7 x 13	279	W
		10000	20-26-310	925.00	21 x 29 7/16 x 14 3/8	7 x 27 13/16	590	Y

Letter following a catalog number designates units which may be converted to cord input and receptacle output. See Adapter Kit table on page 3.

Outline dimensions are the overall outside dimensions of the unit, not including separate capacitor where employed. Dimensions are subject to manufacturing tolerances of ±1/32 to ±1/8 inch.

Electronic-Power Types

. . . ±1% REGULATION FOR FILAMENT TYPE; ±3% FOR PLATE-FILAMENT TYPE

The electronic-power type of Sola transformer is designed as a component for simple assembly into many kinds of electronic equipment. The filament type (CVF) provides 6.0 or 6.3 volts of output regulated within ±1% over line variations of ±15%; the combination plate-and-filament type (CVE) regulates within ±3%.

Both types provide filaments with stabilized voltage supply, thus contributing greatly to reliable operation, long component life, and considerably reduced service cost of the equipment.

Special designs are available in production quantities.

for filament service (Type CVF)

ELECTRICAL SPECIFICATIONS • 60 CYCLE SINGLE PHASE — **MECHANICAL SPECIFICATIONS**

Voltage Rating		Output Capacity in Amps.	Catalog Number	Approx. Net Price Each to Industrial Users	Nominal Dimensions (Inches)		Approx. Ship. Wt. in Lbs.	* Structure Code
Regulated ±1% Output	Input Range				Outline	Mounting		
6.0	95-130	2.50	20-01-015	$15.00	5 5/16 x 2 5/8 x 3 1/2	5 1/16 x 1 1/8	6	D
			20-06-015	14.00	4 13/16 x 2 3/8 x 2 7/16	1 3/4 x 1 7/8	4	E
6.3	95-130	2.38	20-02-015	15.00	5 5/16 x 2 5/8 x 3 1/2	5 1/16 x 1 1/8	6	D
			20-03-015	20.00	4 13/16 x 2 3/8 x 2 7/16	1 3/4 x 1 7/8	4	S
			20-04-015	14.00	4 13/16 x 2 3/8 x 2 7/16	1 3/4 x 1 7/8	4	E
	95-130X 190-260	5.0	20-04-030	16.00	4 13/16 x 3 1/8 x 3 1/8	2 1/2 x 2 1/16	6	E
		10.0	20-04-065	20.00	4 13/16 x 3 1/8 x 3 3/4	2 1/2 x 2 11/16	7	E
		15.0	20-04-095	24.00	4 13/16 x 3 1/8 x 4 11/16	2 1/2 x 3 5/8	11	E
		25.0	20-04-116	35.00	7 x 4 1/2 x 5 11/16	3 5/8 x 4 1/8	23	E

for plate-filament service (Type CVE)

ELECTRICAL SPECIFICATIONS • 60 CYCLE SINGLE PHASE — **MECHANICAL SPECIFICATIONS**

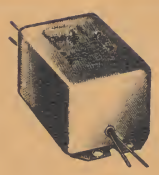
Input range, 100-130 volts

Typical Rectifier Tube	Average D.C. Input Volts to Filter*	Filament Windings		Catalog Number	Approx. Net Price Each to Industrial Users	Nominal Dimensions (Inches)		Approx. Ship. Wt. in Lbs.	* Structure Code
		6.3 Volts	5.0 Volts			Outline	Mounting		
5Y3	275v D.C. @ 50 M.A.	2.5 amps C.T.	2.0 amps	7104	$12.00	4 13/16 x 3 1/8 x 3 3/16	2 1/2 x 2 1/8	6	E
5Y3	385v D.C. @ 110 M.A.	3.0 amps C.T.	2.0 amps	7106	15.00	4 13/16 x 3 1/8 x 3 15/16	2 1/2 x 2 7/8	8	E
5U4	380v D.C. @ 250 M.A.	No. 1: 4.0 amps No. 2: 8.0 amps unregulated	3.0 amps	7107	27.00	7 x 4 1/2 x 4 7/8	3 5/8 x 3 3/8	19	E

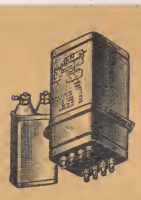
**Voltage values are taken at output of 5Y3GT rectifier for No. 7104 and No. 7106 transformers and at output of 5U4GA-GB for No. 7107. Guaranteed regulation of ±3% on plate voltage output is contingent on the use of Sola-regulated 5.0v filament supply winding for the rectifier tube.*

*Mechanical Structures

"STRUCTURE CODE" LETTER REFERS TO ONE OF THESE GENERAL TYPES OF MECHANICAL ASSEMBLIES:



D — Drawn case; integral capacitor unit; flex leads.



S — Hermetically-sealed case; separate capacitor; solder lugs.



E — Exposed core; end bells; separate capacitor; flex leads.



W — Exposed core; end housings; screw-type terminals in outlet box.



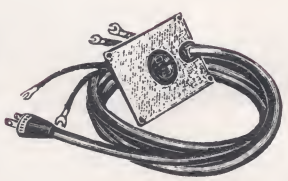
Y — Same as W, but duplex assembly.



Z — Same as W, but triplex assembly.

Cord/Receptacle Adapter Kits

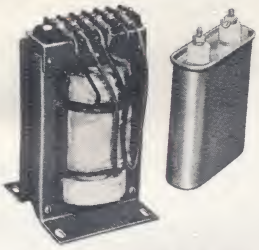
Adapter kits may be used when the convenience of input plug and output receptacle is preferred to the standard arrangement of terminals in the transformer housing. See accompanying chart.



Code	Adapter Kit Catalog No.	Input Cord	Output-Connections	Net price each to industrial users
(a)	999-004	2-wire	2-wire receptacle	$1.75
	999-018	3-wire	3-wire receptacle	2.50
(b)	999-005	2-wire	2-wire receptacle	1.75
	999-019	3-wire	3-wire receptacle	2.50
(c)	999-009	2-wire	2-wire receptacle	2.00
	999-020	3-wire	3-wire receptacle	2.50

The transformers described in this folder are manufactured under one or more of the following United States Patents: Nos. 2,694,177; 2,753,513; 2,806,199, and patents pending.

Constant-Voltage Transformers for 400-Cycle Applications



The 400-cycle constant-voltage Sola transformer is for component applications in ground-support equipment, inverters, communications equipment, and other areas of 400-cycle usage. The Sola transformer embodies sine-wave output as well as compactness and light weight.

The 400-cycle CVS has 118-volt output with ±1% regulation of line and load (0 to full load), and 95-130 volt input. Ratings are available from 60 to 1000 va, in either varnished core-and-coil or with full epoxy encapsulation. Harmonic content is less than 5% total rms.

For further information, write for 400-cycle CVS bulletin.

for Regulation in the KVA Range
The SOLATRON VOLTAGE REGULATOR



For line-voltage regulation in the range from 1 to 100 kva, Sola offers the Solatron electronic-magnetic regulator. It provides the same ±1% regulation as the Sola transformer. Use of a unique electronic control circuit enables design of relatively compact units compared with their high ratings.

Other features of the Solatron include: frequency insensitivity; adjustable output; remote sensing; fast response; and low harmonic content.

For further information, write for Solatron bulletin.

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   - ☐ Reference file.
2. This application is the result of
   - ☐ New equipment or system design.
   - ☐ Modification or redesign of existing equipment or system.
   - ☐ Substitution for similar type product.
3. These features of your product seem most important to my application_____

☐ I would like your representative to call me for an appointment

S.I.

CV175E, CV225

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